

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY DOCKET NO. UCT-0037		SERIAL NO. 10/641,705	
				Can Erkey et al.			
				FILING 08/15/2003		GROUP	

O I P E
 JAN 26 2004
 U.S. PATENT & TRADEMARK OFFICE

U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Sw	US 2002/0070167	6/13/2002	Krasutsky et al.	210	634	
	4,933,404	6/12/1990	Beckman et al.	526	207	
	4,996,366	2/26/1991	Tinuucci et al.	568	454	
	5,158,704	10/27/1992	Fulton et al.	252	309	
	5,266,205	11/30/1993	Fulton et al.	210	639	
	5,238,671	8/24/1993	Matson et al.	423	397	
	5,770,172	6/23/1998	Linchan et al.	423	561.1	
	5,814,678	8/29/1998	Randolph	522	18	
✓	6,299,652	10/9/2001	Jureller et al.	8	142	
Sw	6,452,055	9/17/2002	Koch et al.	568	454	

FOREIGN PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Sw		WO9961401; A1; 19991202 (Abstract Only)
Sw		Smith, R. T. et al., "Rhodium Complexes of the Water-Soluble Phosphine $\text{Ph}_2\text{PCH}_2\text{CH}_2\text{NMe}_3^+$. Their Complexes with Hydride, Olefin, and Carbon Monoxide Ligands. Their Use as Olefin Hydrogenation and Hydroformylation Catalysts in Aqueous Solution and in Aqueous/Organic Solvent Two-Phase Systems and Adsorbed on A Cation-Exchange Resin", Organometallics, 1983, 2, 1138-1144,

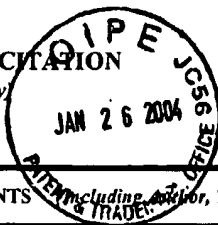
EXAMINER <i>S. Withnypor</i>	DATE CONSIDERED <i>6/16/04</i>
---------------------------------	-----------------------------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		Docket Number (Optional) UCT-0037	Application Number 10/641,705
		Applicant(s) Can Erkey et al.	
		Filing Date 08/15/2003	Group Art Unit
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Abstracts, Title, Date, Pertinent Pages, Etc.)		
(SW)	Heitz, M. P. et al., "Water Core within Perfluoropolyether-Based Microemulsions Formed in Supercritical Carbon Dioxide", J. Phys. Chem B 1997, 101, 6707-6714.		
	Cornils, B. et al., "Aqueous-Phase Organometallic Catalysis; Concepts and Applications", 1998, Weinheim, Germany: Wiley-VCH, 59-143.		
	Horvath, I. T., "Fluorous Biphasic Chemistry", Acc. Chem. Res. 1998, 31, 10, 641-650.		
	Niemeyer, E. D., "The pH within PFPE Reverse Micelles Formed in Supercritical CO ₂ ", J. Phys. Chem. B 1998, 102, 1474-1478.		
	Cornils, B., "Bulk and Fine Chemicals Via Aqueous Biphasic Catalysis", Journal of Molecular Catalysis A: Chemical 143 (1999) 1-10.		
	Holmes, J. D. "Synthesis of Cadmium Sulfide Q Particles in Water-in-CO ₂ Microemulsions", Langmuir 1999, 15, 6613-6615.		
	Holmes, J. D. "Buffering the Aqueous Phase pH in Water-in-CO ₂ Microemulsions", J. Phys. Chem. B 1999, 103, 5703-5711.		
	Jacobson, G. B., "Organic Synthesis in Water/Carbon Dioxide Microemulsions", J. Org. Chem. 1999, 64, 1201-1206.		
	Jacobson, G. B., "Enhanced Catalyst Reactivity and Separations Using Water/Carbon Dioxide Emulsions", J. Am. Chem. Soc. 1999, 121, 11902-11903.		
	Kane, M. A., "Performance of Cholesterol Oxidase Sequestered within Reverse Micelles Formed in Supercritical Carbon Dioxide", Langmuir 2000, 16, 4901-4905.		
	Liu, Z. et al., "Water in Carbon Dioxide Microemulsions with Fluorinated Analogues of AOT", Langmuir 2001, 17, 274-277.		
(SW)	Dong, X. et al., "Behavior and Micelle Size of an Aqueous Microdispersion in Supercritical CO ₂ with a Novel Surfactant", Ind. Eng. Chem. Res. 2002, 41, 1038-1042.		
EXAMINER S. Witherspoon		DATE CONSIDERED 6/16/04	
*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.			

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional) UCT-0037	Application Number 10/641,705
Applicant(s) Can Erkey et al.	
Filing Date 08/15/2003	Group Art Unit

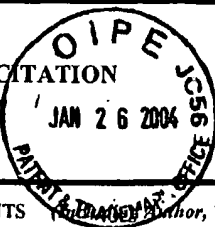
*EXAMINER INITIAL	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)
EW	X. Dong et al., "Synthesis of CuS Nanoparticles in Water-in-Carbon Dioxide Microemulsions", Ind. Eng. Chem. Res. 2002, 41, 4489-4493.
	Can Erkey et al., "Hydroformylation of ethylene in supercritical carbon dioxide using Ru(SO) ₂ as a catalyst precursor", Catalysis Communications 3 (2002) 213-219.
	Shaker Haji et al., "Investigation of rhodium catalyzed hydroformylation of ethylene in supercritical carbon dioxide by in situ FTIR spectroscopy", Tetrahedron, Volume 58 (2002) 3929-3941.
	Haumann, M. et al., "Hydroformylation of 1-dodecene using Rh-TPPTS in a microemulsion", Applied Catalysis A: General 225 (2002) 239-249.
	Ohde, H. et al., "Water-in-CO ₂ Microemulsions as Nanoreactors for Synthesizing CdS and ZnS Nanoparticles in Supercritical CO ₂ ", Nano Letters 2002, Volume 2, Number 7, pages 721-724.
	Ohde, H. et al., "Hydrogenation of Olefins in Supercritical CO ₂ , Catalyzed by Palladium Nanoparticles in a Water-in-CO ₂ Microemulsion", J. Am. Chem. Soc., 2002, 124, 4540-4541.
	http://www.cmt.anl.gov/toroid-cavity/poster1/aip-04index.html ; printed 8/5/2002; 18 pages.
	Keith P. Johnston et al., "Reactions and Synthesis in Microemulsions and Emulsions in Carbon Dioxide", Surfactant Synthesis Series (2001), 100 (Reactions and Synthesis in Surfactant Systems), 349-358.
	David E. Fremgen et al., " Microemulsions of water in superficial carbon dioxide: an In-situ NMR investigation of micelle formation and structure" Journal of Supercritical Fluids 19 (2001) 287-298.
	Gunilla B. Jacobson et al., "Biphasic Catalysis in Water/Carbon Dioxide Micellar Systems", (Abstract Only), American Chemical Society, 217th ACS National Meeting 0-8412-3672-0, March 21-25, 1999.
	J. D. Holmes et al., "Bioconversions in a Water-in-CO ₂ Microemulsion", Langmuir, Vol. 14, No. 22, 1998, 6371-6376.
EW	Yutaka Ikushima, "Supercritical fluids: an interesting medium for chemical and biochemical processes", Advances in Colloid and Interface Science 71-72 (1997) 259-280.

EXAMINER S. Wilkerson	DATE CONSIDERED 6/16/04
--------------------------	----------------------------

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Number (Optional)

UCT-0037

Application Number

10/641,705

Applicant(s)

Can Erkey et al.

Filing Date

08/15/2003

Group Art Unit

*EXAMINER
INITIAL

OTHER DOCUMENTS

(Indicate Author, Title, Date, Pertinent Pages, Etc.)

Marina A. Hauck et al., "Hemoproteins-Catalyzed Oxidations of Organosulfur Compounds in Reverse Micelles, Microemulsions, and Emulsions in Supercritical Fluids", (Abstract Only), American Chemical Society, 222nd ACS National Meeting 0-8412-3803-0, August 26-30, 2001.

Dongil Lee et al., "Electrochemistry In Water-In-Supercritical-CO₂, Microemulsions", (Abstract Only) American Chemical Society, 222nd ACS National Meeting 0-8412-3803-0, August 26-30, 2001.

Robert H. Grubbs et al., "Catalytic Reduction of Olefins with a Polymer-Supported Rhodium(I) Catalyst" Journal of the American Chemical Society, 93:12, June 16, 1971, pages 3062-3063.

M. Capka et al., "Hydrogenation, Hydrosilylation and Hydroformylation of Olefins Catalysed by Polymer-Supported Rhodium Complexes", Tetrahedron Letters No. 50, pp 4787-4790, 1971.

Yutaka Ikushima, "Supercritical fluids as media for chemical and biochemical reactions", Recent Research Developments in Chemical Engineering (1997), 1, 49-57.

EXAMINER

S. W. Winterspoon

DATE CONSIDERED

6/16/04

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.